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53 (CS 501) SYPR

2015

SYSTEM PROGRAMMING

Paper : CS 501

Full Marks : 100

Time : Three hours

**The figures in the margin indicate
full marks for the questions.**

Answer **any five** questions

1.

5×4=20

- (i) Define a System Programming.
- (ii) Compare language processor and language translator.
- (iii) Write a short note on component of system software.
- (iv) Define Application Software.

2.

- (a) List the basic functions of assembler. What are the types of assembly language statement? 10

Contd.

- (b) Give the design specification of an assembler and explain how two pass translation is done. 10
- 3. (a) Explain how intermediate code generation is done in assembler. 10
- (b) Draw the flow chart of pass 2 assembler. 10
- 4. (a) Define the macro and nested macro with example. 10
- (b) What are the basic tasks that must be performed by a macroprocessor? 10
- 5. (a) Explain the macro definition and call with an example. 10
- (b) Write a note on macro expansion. 10
- 6. (a) What are the functions of loader? Explain in brief. 10
- (b) Give the complete design of absolute loader. 10

7. (a) Define compiler and with a neat sketch explain all of its phases. 10
- (b) Explain Translation hierarchy in detail. 10

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